

Name: _____

Math 10F&PC

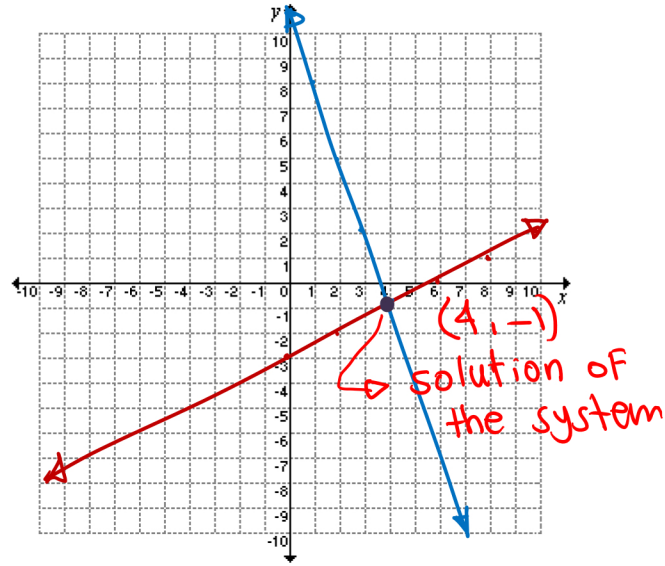
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Chapter 7 System of Equations**Section 7.2: Solving a System of Linear Equations Graphically****Example 3:** Solve the following system graphically.

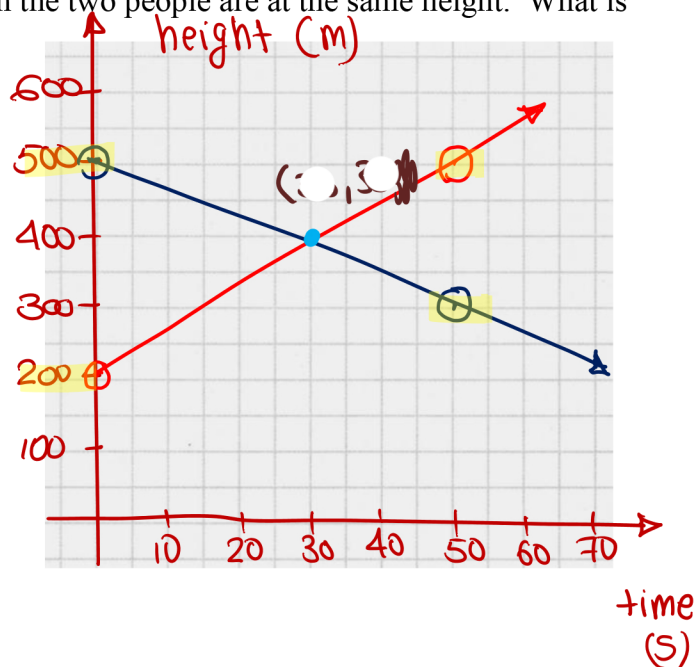
(Use table of values)

$$x - 2y = 6$$

$$3x + y = 11$$

**Example 4:** A parachutist descends from a height of 500 metres to 300 metres above ground in 50 seconds. During the same 50 second period, a balloonist rises from 200 metres to 500 metres.

- a) Write a system of linear equations to model their heights with respect to time.
- b) Graph the system of equations to determine when the two people are at the same height. What is their height at that moment in time?

**Assignment: 7.2: Page 409: 3, 4, 5a i, ii, iii 6, 7a b, 8, 10, 12, 13, 16 Challenge: 17, 19**